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NEWS	14	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS	15	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS	16	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS	17	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS	18	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS	19	MAR 16	CASREACT coverage extended
NEWS	20	MAR 20	MARPAT now updated daily
NEWS	21	MAR 22	LWPI reloaded
NEWS	22	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS	23	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS	24	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS	25	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS	26	APR 30	CA/CAPLUS enhanced with 1870-1889 U.S. patent records
NEWS	27	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS	28	MAY 01	New CAS web site launched
NEWS	29	MAY 08	CA/CAPLUS Indian patent publication number format defined
NEWS EXPRESS			NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
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FILE 'CAPLUS' ENTERED AT 15:05:05 ON 11 MAY 2007

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=> s wo9919249/pn

L1 1 WO9919249/PN

=> d l1 iall

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:262218 CAPLUS

DOCUMENT NUMBER: 130:269681

ENTRY DATE: Entered STN: 29 Apr 1999

TITLE: A process for the preparation of hydrogen and carbon monoxide

INVENTOR(S): De Jong, Krijn Pieter; Pieterse, Coen Willem Johannes; Schoonebeek, Ronald Jan

PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij BV, Neth.

SOURCE: PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

INT. PATENT CLASSIF.:

MAIN: C01B003-00

SECONDARY: C01B003-38; C01B003-32; H01M008-06

CLASSIFICATION: 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)

Section cross-reference(s): 49, 51

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9919249	A1	19990422	WO 1998-EP6653	19981013 <--

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

IN 1998MA02192	A	20050909	IN 1998-MA2192	19980929
ZA 9809263	A	19990416	ZA 1998-9263	19981012
CA 2306938	A1	19990422	CA 1998-2306938	19981013
AU 9913351	A	19990503	AU 1999-13351	19981013
AU 737880	B2	20010906		
EP 1025039	A1	20000809	EP 1998-956855	19981013
EP 1025039	B1	20030115		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
BR 9813035	A	20000815	BR 1998-13035	19981013
JP 2001519311	T	20011023	JP 2000-515827	19981013
AT 231102	T	20030215	AT 1998-956855	19981013
TW 440541	B	20010616	TW 1998-87117283	19981019
MX 200003327	A	20001110	MX 2000-3327	20000405
US 6673270	B1	20040106	US 2000-529293	20000411
NO 2000001927	A	20000413	NO 2000-1927	20000413

PRIORITY APPLN. INFO.:

EP 1997-308154	A	19971014
EP 1998-304141	A	19980526
WO 1998-EP6653	W	19981013

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9919249	ICM	C01B003-00
	ICS	C01B003-38; C01B003-32; H01M008-06
	IPCI	C01B0003-00 [ICM,6]; C01B0003-38 [ICS,6]; C01B0003-32 [ICS,6]; H01M0008-06 [ICS,6]
	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; C01B0003-00 [I,C*]; C01B0003-32 [I,A]; C01B0003-38 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]
	ECLA	C01B003/32B; C01B003/38D; H01M008/06B2; H01M008/06C
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	IPCR	C01B [I,S]
CA 2306938	IPCI	C01B0003-00 [ICM,7]; H01M0008-06 [ICS,7]; C01B0003-32 [ICS,7]; C01B0003-38 [ICS,7]
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AU 9913351	IPCI	C01B0003-00 [ICM,6]; C01B0003-38 [ICS,6]; C01B0003-32 [ICS,6]; H01M0008-06 [ICS,6]
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EP 1025039	IPCI	C01B0003-00 [ICM,6]; C01B0003-38 [ICS,6]; C01B0003-32 [ICS,6]; H01M0008-06 [ICS,6]
	IPCR	C01B0003-00 [I,C*]; C01B0003-00 [I,A]; C01B0003-32 [I,A]; C01B0003-38 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]
BR 9813035	IPCI	C01B0003-00 [ICM,7]; C01B0003-38 [ICS,7]; C01B0003-32 [ICS,7]; H01M0008-06 [ICS,7]
	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; C01B0003-00 [I,C*]; C01B0003-32 [I,A]; C01B0003-38 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]
JP 2001519311	IPCI	C01B0003-38 [ICM,7]; B01J0023-46 [ICS,7]; C01B0003-32 [ICS,7]; C01B0003-00 [ICS,7,C*]; H01M0008-06 [ICS,7]
	IPCR	C01B0003-00 [I,C*]; C01B0003-32 [I,A]; C01B0003-38 [I,A]; H01M0008-06 [I,A]; H01M0008-06 [I,C*]

AT 231102 IPCI C01B0003-00 [ICM,7]; C01B0003-38 [ICS,7]; C01B0003-32 [ICS,7]; H01M0008-06 [ICS,7]  
 IPCR B01J0023-46 [I,C\*]; B01J0023-46 [I,A]; C01B0003-00 [I,C\*]; C01B0003-32 [I,A]; C01B0003-38 [I,A]; H01M0008-06 [I,C\*]; H01M0008-06 [I,A]  
 TW 440541 IPCI C01B0003-26 [ICM,7]; C01B0003-00 [ICM,7,C\*]  
 IPCR B01J0023-46 [I,C\*]; B01J0023-46 [I,A]; C01B0003-00 [I,C\*]; C01B0003-32 [I,A]; C01B0003-38 [I,A]; H01M0008-06 [I,C\*]; H01M0008-06 [I,A]  
 MX 200003327 IPCI C01B0003-00 [ICM,5]; C01B0003-32 [ICS,5]; C01B0003-38 [ICS,5]; H01M0008-06 [ICS,5]  
 US 6673270 IPCI C01B0003-26 [ICM,7]; C01B0003-00 [ICM,7,C\*]  
 IPCR B01J0023-46 [I,C\*]; B01J0023-46 [I,A]; C01B0003-00 [I,C\*]; C01B0003-32 [I,A]; C01B0003-38 [I,A]; H01M0008-06 [I,C\*]; H01M0008-06 [I,A]  
 NCL 252/373.000; 423/651.000  
 ECLA C01B003/32B; C01B003/38D; H01M008/06B2; H01M008/06C  
 NO 2000001927 IPCI C01B0003-32 [ICM,7]; C01B0003-38 [ICS,7]; C01B0003-00 [ICS,7,C\*]; H01M0008-06 [ICS,7]  
 IPCR B01J0023-46 [I,C\*]; B01J0023-46 [I,A]; C01B0003-00 [I,C\*]; C01B0003-32 [I,A]; C01B0003-38 [I,A]; H01M0008-06 [I,C\*]; H01M0008-06 [I,A]

# ABSTRACT:

A catalytic partial oxidation process for the preparation of hydrogen and carbon monoxide from an organic feedstock comprises contacting the feedstock and an oxygen-containing gas, in amts. giving an oxygen-to-carbon ratio of from 0.3 to 0.8, with a catalyst at a gas hourly space velocity in the range of from 100,000 to 10,000,000 NL/kg-h. The organic feedstock used is a feedstock containing hydrocarbons and/or oxygenates, which is liquid under conditions of standard temperature and pressure and has an average carbon number of at least 6. The invention further relates to an elec.-energy generating process, an elec.-energy generating system, and transport means provided with this elec.-energy generating system.

SUPPL. TERM: hydrogen carbon monoxide prepn process; fuel cell power generation system  
 INDEX TERM: Alcohols, reactions  
 ROLE: RCT (Reactant); RACT (Reactant or reagent)  
 (aliphatic; process for preparation of hydrogen and carbon monoxide)  
 INDEX TERM: Power  
 (generation; process for preparation of hydrogen and carbon monoxide)  
 INDEX TERM: Oxidation  
 Oxidation catalysts  
 (partial; process for preparation of hydrogen and carbon monoxide)  
 INDEX TERM: Fuel cells  
 Water gas shift reaction  
 (process for preparation of hydrogen and carbon monoxide)  
 INDEX TERM: Gas oils  
 (synthetic; process for preparation of hydrogen and carbon monoxide)  
 INDEX TERM: Kerosene  
 ROLE: RCT (Reactant); RACT (Reactant or reagent)  
 (synthetic; process for preparation of hydrogen and carbon monoxide)  
 INDEX TERM: 7439-88-5, Iridium, uses 7440-16-6, Rhodium, uses 7440-67-7, Zirconium, uses  
 ROLE: CAT (Catalyst use); USES (Uses)  
 (process for preparation of hydrogen and carbon monoxide)  
 INDEX TERM: 630-08-0P, Carbon monoxide, preparation 1333-74-0P, Hydrogen, preparation  
 ROLE: IMF (Industrial manufacture); PREP (Preparation)

INDEX TERM: (process for preparation of hydrogen and carbon monoxide)  
60-29-7, Ether, reactions  
ROLE: RCT (Reactant); RACT (Reactant or reagent)  
(process for preparation of hydrogen and carbon monoxide)  
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS  
RECORD.  
REFERENCE(S): (1) Hideaki, M; Fuel reforming by catalytic partial  
oxidation 1981, 18, CAPLUS  
(2) Hideaki, M; TOYOTA CHUO KENKYUSHO KENKYU HOKOKU 1980,  
V21, P11  
(3) Johnson Matthey Plc; EP 0262947 A 1988 CAPLUS  
(4) Johnson Matthey Plc; WO 9600186 A 1996 CAPLUS  
(5) Kenji, Y; US 4115074 A 1978 CAPLUS  
(6) Nippon Seikosho Kk; JP 58091002 A 1983 CAPLUS  
(7) Shell Int Research; EP 0656317 A 1995 CAPLUS  
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L2 0 WO0000426/PN  
(WO426/PN)

=> s wo20000426/pn  
L3 0 WO20000426/PN

=> s wo200426/pn  
L4 0 WO200426/PN

=> s ep 9919249/pn  
L5 0 EP 9919249/PN  
(EP9919249/PN)

=> s wo 20000426/pn  
L6 0 WO 20000426/PN  
(WO20000426/PN)

=> s wo 2000426/pn  
L7 0 WO 2000426/PN  
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=> s wo 20000426/pn  
L8 0 WO 20000426/PN  
(WO20000426/PN)

=> s wo 200000426/pn  
L9 1 WO 200000426/PN  
(WO2000000426/PN)

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L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2000:15108 CAPLUS  
DOCUMENT NUMBER: 132:80459  
ENTRY DATE: Entered STN: 07 Jan 2000  
TITLE: Catalytic partial oxidation of hydrocarbons with a  
rhodium-iridium alloy catalyst  
INVENTOR(S): Schaddenhorst, David; Schoonebeek, Ronald Jan  
PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij BV, Neth.  
SOURCE: PCT Int. Appl., 19 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
INT. PATENT CLASSIF.:  
MAIN: C01B003-38

SECONDARY: B01J023-46  
 CLASSIFICATION: 49-1 (Industrial Inorganic Chemicals)  
 Section cross-reference(s): 45, 51, 52  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000000426	A1	20000106	WO 1999-EP4408	19990624 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PT 1098840	T	20021129	PT 1999-931148	19990623
ES 2182544	T3	20030301	ES 1999-931148	19990623
CA 2335983	A1	20000106	CA 1999-2335983	19990624
AU 9947776	A	20000117	AU 1999-47776	19990624
AU 743727	B2	20020131		
BR 9911739	A	20010403	BR 1999-11739	19990624
EP 1093439	A1	20010425	EP 1999-931176	19990624
EP 1093439	B1	20030219		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE, PT				
JP 2002519182	T	20020702	JP 2000-556989	19990624
AT 232836	T	20030315	AT 1999-931176	19990624
NO 2000006579	A	20001221	NO 2000-6579	20001221
US 6702960	B1	20040309	US 2000-720294	20001222
ZA 2001000317	A	20010723	ZA 2001-317	20010111
ZA 2001000316	A	20010829	ZA 2001-316	20010111
US 2004228792	A1	20041118	US 2004-600494	20040607
PRIORITY APPLN. INFO.:			EP 1998-305179	A 19980630
			WO 1999-EP4408	W 19990624
			US 2000-720288	B3 20001221

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2000000426	ICM	C01B003-38
	ICS	B01J023-46
	IPCI	C01B0003-38 [ICM,7]; C01B0003-00 [ICM,7,C*]; B01J0023-46 [ICS,7]
	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; B01J0037-00 [I,C*]; B01J0037-02 [I,A]; C01B0003-00 [I,C*]; C01B0003-38 [I,A]; C01B0003-40 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]
PT 1098840	ECLA	B01J023/46; B01J023/46D; B01J023/46F; B01J037/02M4; C01B003/38D; C01B003/40
	IPCI	C01B0003-38 [ICM,7]; C01B0003-00 [ICM,7,C*]; B01J0023-40 [ICS,7]; B01J0037-02 [ICS,7]; B01J0037-00 [ICS,7,C*]
ES 2182544	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; B01J0037-00 [I,C*]; B01J0037-02 [I,A]; C01B0003-00 [I,C*]; C01B0003-38 [I,A]; C01B0003-40 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]
	IPCI	C01B0003-38 [ICM,7]; C01B0003-00 [ICM,7,C*]; B01J0023-40 [ICS,7]; B01J0037-02 [ICS,7]; B01J0037-00 [ICS,7,C*]
ES 2182544	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; B01J0037-00 [I,C*]; B01J0037-02 [I,A]; C01B0003-00 [I,C*]; C01B0003-38 [I,A]; C01B0003-40 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]

CA 2335983	IPCI	C01B0003-38 [ICM,7]; C01B0003-00 [ICM,7,C*]; B01J0023-46 [ICS,7]
	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; B01J0037-00 [I,C*]; B01J0037-02 [I,A]; C01B0003-00 [I,C*]; C01B0003-38 [I,A]; C01B0003-40 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]
AU 9947776	IPCI	C01B0003-38 [ICM,7]; C01B0003-00 [ICM,7,C*]; B01J0023-46 [ICS,7]
	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; B01J0037-00 [I,C*]; B01J0037-02 [I,A]; C01B0003-00 [I,C*]; C01B0003-38 [I,A]; C01B0003-40 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]
BR 9911739	IPCI	C01B0003-38 [ICM,7]; C01B0003-00 [ICM,7,C*]; B01J0023-46 [ICS,7]
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EP 1093439	IPCI	C01B0003-38 [ICM,6]; C01B0003-00 [ICM,6,C*]; B01J0023-46 [ICS,6]
	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; C01B0003-00 [I,C*]; C01B0003-38 [I,A]
JP 2002519182	IPCI	B01J0023-46 [ICM,7]; C01B0003-38 [ICS,7]; C01B0003-00 [ICS,7,C*]; H01M0008-06 [ICS,7]
	IPCR	B01J0023-46 [I,A]; B01J0023-46 [I,C*]; B01J0037-00 [I,C*]; B01J0037-02 [I,A]; C01B0003-00 [I,C*]; C01B0003-38 [I,A]; C01B0003-40 [I,A]
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NO 2000006579	IPCI	C01B0003-36 [ICM,7]; C01B0003-38 [ICS,7]; C01B0003-00 [ICS,7,C*]
	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; B01J0037-00 [I,C*]; B01J0037-02 [I,A]; C01B0003-00 [I,C*]; C01B0003-38 [I,A]; C01B0003-40 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]
US 6702960	IPCI	C07C0001-02 [ICM,7]; C07C0001-00 [ICM,7,C*]; C01B0003-24 [ICS,7]; C01B0003-26 [ICS,7]; C01B0003-00 [ICS,7,C*]; B01J0023-46 [ICS,7]
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	NCL	252/373.000; 423/650.000; 423/651.000; 502/325.000; 502/326.000; 502/327.000
	ECLA	B01J023/46; B01J023/46D; B01J023/46F; B01J037/02M4; C01B003/38D; C01B003/40
ZA 2001000317	IPCI	B01J [ICM,7]; C01B [ICS,7]
ZA 2001000316	IPCI	B01J [ICM,7]; C01B [ICS,7]
US 2004228792	IPCI	C01B0003-26 [ICM,7]; C01B0003-00 [ICM,7,C*]
	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; B01J0037-00 [I,C*]; B01J0037-02 [I,A]; C01B0003-00 [I,C*]; C01B0003-38 [I,A]; C01B0003-40 [I,A]
	NCL	423/651.000
	ECLA	B01J023/46; B01J023/46D; B01J023/46F; B01J037/02M4; C01B003/38D; C01B003/40

ABSTRACT:

The invention relates to a process for catalytic partial oxidation of a hydrocarbonaceous feedstock. The process comprises contacting a feed comprising the hydrocarbonaceous feedstock and an O-containing gas with a catalyst comprising metals of Group VIII of the Periodic Table of Elements, wherein the

Group VIII metals are at least Rh and Ir in intimate association with each other.

SUPPL. TERM: catalytic partial oxidn hydrocarbon synthesis gas  
INDEX TERM: Hydrocarbons, processes  
ROLE: PEP (Physical, engineering or chemical process); PROC  
(Process)  
(catalytic partial oxidation of)  
INDEX TERM: Natural gas, processes  
ROLE: PEP (Physical, engineering or chemical process); PROC  
(Process)  
(catalytic partial oxidation of hydrocarbons with  
rhodium-iridium alloy catalyst)  
INDEX TERM: Synthesis gas manufacturing  
(catalytic partial oxidation of hydrocarbons with  
rhodium-iridium alloy catalyst for)  
INDEX TERM: Oxidation  
(catalytic; catalytic partial oxidation of hydrocarbons)  
INDEX TERM: 74-82-8, Methane, processes  
ROLE: PEP (Physical, engineering or chemical process); PROC  
(Process)  
(catalytic partial oxidation of hydrocarbons with  
rhodium-iridium alloy catalyst)  
INDEX TERM: 7429-90-5, Aluminum, uses 7439-88-5, Iridium, uses  
7439-91-0, Lanthanum, uses 7439-95-4, Magnesium, uses  
7440-04-2, Osmium, uses 7440-06-4, Platinum, uses  
7440-16-6, Rhodium, uses 7440-21-3, Silicon, uses  
7440-32-6, Titanium, uses 7440-39-3, Barium, uses  
7440-58-6, Hafnium, uses 7440-67-7, Zirconium, uses  
37364-99-1  
ROLE: CAT (Catalyst use); USES (Uses)  
(in catalyst for partial oxidation of hydrocarbons)  
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS  
RECORD.  
REFERENCE(S): (1) Shell Int Research; EP 0629578 A 1994 CAPLUS  
(2) Snam Progetti; GB 2274284 A 1994 CAPLUS

=> s cataly? (2a) partial oxid?

1378285 CATALY?  
395866 PARTIAL  
1003 PARTIALS  
396468 PARTIAL  
(PARTIAL OR PARTIALS)  
3043647 OXID?  
11501 PARTIAL OXID?  
(PARTIAL(W)OXID?)

L10 2691 CATALY? (2A) PARTIAL OXID?

=> s l10 and hydrocarbon (s) oxygenat? compound?

339114 HYDROCARBON  
340689 HYDROCARBONS  
524286 HYDROCARBON  
(HYDROCARBON OR HYDROCARBONS)  
45037 OXYGENAT?  
997502 COMPOUND?  
1160232 COMPD  
1733147 COMPDS  
2479882 COMPD  
(COMPD OR COMPDS)  
2937477 COMPOUND?  
(COMPOUND? OR COMPD)  
2118 OXYGENAT? COMPOUND?  
(OXYGENAT?(W)COMPOUND?)  
578 HYDROCARBON (S) OXYGENAT? COMPOUND?



L11 3 L10 AND HYDROCARBON (S) OXYGENAT? COMPOUND?

=> d his

(FILE 'HOME' ENTERED AT 15:04:13 ON 11 MAY 2007)

FILE 'CAPLUS' ENTERED AT 15:05:05 ON 11 MAY 2007

L1 1 S WO9919249/PN  
L2 0 S WO0000426/PN  
L3 0 S WO20000426/PN  
L4 0 S WO200426/PN  
L5 0 S EP 9919249/PN  
L6 0 S WO 20000426/PN  
L7 0 S WO 2000426/PN  
L8 0 S WO 20000426/PN  
L9 1 S WO 200000426/PN  
L10 2691 S CATALY? (2A) PARTIAL OXID?  
L11 3 S L10 AND HYDROCARBON (S) OXYGENAT? COMPOUND?

=> s l11 not l1 not l9

L12 3 L11 NOT L1 NOT L9

=> d l12 ibib ab 1-3

L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:238918 CAPLUS

DOCUMENT NUMBER: 142:282643

TITLE: Catalytic partial

oxidation process for producing synthesis gas

INVENTOR(S): Basini, Luca; Bartolini, Andrea; Lupi, Giancarlo;  
Clerici, Gabriele Carlo Ettore

PATENT ASSIGNEE(S): Eni S.p.A., Italy; Enitecnologie S.p.A.

SOURCE: PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005023710	A2	20050317	WO 2004-EP10169	20040909
WO 2005023710	A3	20050526		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2538404	A1	20050317	CA 2004-2538404	20040909
EP 1663856	A2	20060607	EP 2004-765092	20040909
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
US 2007105962	A1	20070510	US 2007-571538	20070117
PRIORITY APPLN. INFO.:			IT 2003-MI1739	A 20030911
			WO 2004-EP10169	W 20040909

AB A partial oxidation process of liquid fuels, selected from hydrocarbon and/or oxygenated compds., together with gaseous fuels, selected from hydrocarbon compds., natural gas and LPG,

includes premixing the reagents with oxygen or air, and optionally with vapor and/or CO<sub>2</sub> and heating to 25-400°; reacting the mixture in the catalytic zone, at inlet temps. ranging from 50 to 500° and space velocities ranging from 1,000 to 1,000,000 Nl reagents/L cat x h, reaching temps. ranging from 450 to 1350°. The reagents may include heavy residues from oil distillation. The catalyst system consists of oxides, oxynitrides, nitrides, carbides, and/or oxycarbides containing Rh, Ir, Ni, Fe, Co, and/or Mo.

L12 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:233171 CAPLUS

DOCUMENT NUMBER: 118:233171

TITLE: Partial oxidation of hydrocarbons and oxygenated compounds on perovskite oxides

AUTHOR(S): Shimizu, T.

CORPORATE SOURCE: Hakodate Natl. Coll. Technol., Tokura, 042, Japan

SOURCE: Chemical Industries (Dekker) (1993), 50 (Properties and Applications of Perovskite-Type Oxides), 289-305  
CODEN: CHEIDI; ISSN: 0737-8025

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review with 42 refs.

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:80226 CAPLUS

DOCUMENT NUMBER: 118:80226

TITLE: Partial oxidation of hydrocarbons and oxygenated compounds on perovskite oxides

AUTHOR(S): Shimizu, T.

CORPORATE SOURCE: Hakodate Natl. Coll. Technol., Hakodate, 042, Japan

SOURCE: Catalysis Reviews - Science and Engineering (1992), 34(4), 355-71

CODEN: CRSEC9; ISSN: 0161-4940

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB Effect of temperature and surface oxygen for partial oxidation of hydrocarbons were

reviewed; partial oxidation of alcs. were reviewed; partial oxidation is based on the use of oxygen as co-reactant; 42 refs.

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:238918 CAPLUS  
DOCUMENT NUMBER: 142:282643  
TITLE: Catalytic partial  
oxidation process for producing synthesis gas  
INVENTOR(S): Basini, Luca; Bartolini, Andrea; Lupi, Giancarlo;  
Clerici, Gabriele Carlo Ettore  
PATENT ASSIGNEE(S): Eni S.p.A.; Italy; Enitecnologie S.p.A.  
SOURCE: PCT Int. Appl., 24 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005023710	A2	20050317	WO 2004-EP10169	20040909
WO 2005023710	A3	20050526		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2538404	A1	20050317	CA 2004-2538404	20040909
EP 1663856	A2	20060607	EP 2004-765092	20040909
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
US 2007105962	A1	20070510	US 2007-571538	20070117
PRIORITY APPLN. INFO.:			IT 2003-MI1739	A 20030911
			WO 2004-EP10169	W 20040909

AB A partial oxidn. process of liquid fuels, selected from hydrocarbon and/or oxygenated compds., together with gaseous fuels, selected from hydrocarbon compds., natural gas and LPG, includes premixing the reagents with oxygen or air, and optionally with vapor and/or CO<sub>2</sub> and heating to 25-400°; reacting the mixture in the catalytic zone, at inlet temps. ranging from 50 to 500° and space velocities ranging from 1,000 to 1,000,000 Nl reagents/L cat x h, reaching temps. ranging from 450 to 1350°. The reagents may include heavy residues from oil distn. The catalyst system consists of oxides, oxynitrides, nitrides, carbides, and/or oxycarbides containing Rh, Ir, Ni, Fe, Co, and/or Mo.

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:452964 CAPLUS  
DOCUMENT NUMBER: 115:52964  
TITLE: The conversion of high-pollutant undesirable oil residues into environmentally acceptable hydrogen fuel  
AUTHOR(S): Abdel-Aal, H. K.  
CORPORATE SOURCE: Dep. Chem. Eng., King Fahd Univ. Pet. Miner., Dhahran, 31261, Saudi Arabia  
SOURCE: Advances in Hydrogen Energy (1990), 8(Hydrogen Energy Prog. 8, Vol. 1), 357-75  
CODEN: AHENDB; ISSN: 0276-2412  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: English  
AB A review with 7 refs. After presenting some of the characteristics of

heavy petroleum and petroleum residues (especially from the Middle East), a comparison is made between the upgrading approach using a chemical conversion (e.g., hydrocracking or hydroprocessing) and non-catalytic partial oxidn.-gasification. The selection of a particular process depends largely on the quality of the residue that can be conveniently or practically handled by a refinery. For those feedstocks with significant concns. of asphaltenes, S, Ni, V, etc., hydrocracking and hydroprocessing will require expensive upgrading equipment. Such residues would have more value as gasification-partial oxidation feedstocks for manufacture of H or synthesis gas, which can be easily used within the refinery or upgraded to more valuable products.

L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:57737 CAPLUS  
DOCUMENT NUMBER: 90:57737  
TITLE: Gasification process  
INVENTOR(S): Yoshida, Kenji; Isogaya, Kazuyoshi; Tomita, Tadayoshi; Kikuchi, Katsutoshi; Kuboyama, Hisaharu  
PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan  
SOURCE: U.S., 7 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4115074	A	19780919	US 1976-751168	19761216
JP 52078901	A	19770702	JP 1975-155111	19751226
JP 57010916	B	19820301		

PRIORITY APPLN. INFO.: JP 1975-155111 A 19751226

AB H-containing gas mixts. are manufactured by the partial oxidn. of hydrocarbon mixts. containing residual oils at  $\geq 850^\circ$  in a fixed catalyst bed without the deposition of C. Before gasification the hydrocarbon mixture is atomized with a mixture of O-containing gas and steam without forming eddy currents, with the residence time in the atomizing zone being 0.05-5 s. The atomizing zone has a cylindrical or frustoconical shape, the inside diameter at the top end of the zone is twice as large as the diameter of the atomization nozzle, and the angle of the sidewall of the atomizing zone is smaller than the angle of the streams from the nozzle. Thus, a petroleum distn. residue (1.0 kg/h) was gasified in this apparatus at  $1000^\circ$  by steam (2.4 kg/h) and air (3.6 m<sup>3</sup>/h) at 0.2 kg/cm<sup>2</sup> (gage), with Ca aluminate as the catalyst. No C deposition was observed at residence times in the atomizing zone of 0.05 and 0.2 s, but sooty C was deposited at 0.02 s residence time.

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